**PerpleXing Polygons**

Each polygon has its own pattern – you must discover how the numbers in the bold triangle are related and then write the one-step equation that fits the pattern. Then solve for X.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **What is my pattern?** | **Write the equation.** | **Solve for X.** |
| **15**  **20**  **10**  **2**  **2**  **X**  **5**  **6** | |  |  |
| **X**  **5**  **8**  **2**  **6**  **4**  **10**  **4**  **1**  **2**  **3**  **6** | |  |  |
| **7**  **2**  **6**  **20**  **14**  **3**  **10**  **5**  **4**  **X**  **5**  **8** | |  |  |
| **17**  **9**  **75**  **16**  **4**  **55**  **33**  **29**  **15**  **22**  **30**  **X** | |  |  |

Now it is time for you to create your own perplexing polygon pattern. Let your partner try to discover your pattern.